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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,608	12/02/2003	Hiroyuki Kometani	380-45	3708
23117 NIXON & VA	7590 08/22/200 NDFRHYF PC	EXAM	EXAMINER	
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			SERGENT, RABON A	
ARLINGTON,	VA 22203		. ART UNIT PAPER NUMBER	
			1711	
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			MAIL DATE	DELIVERY MODE
			08/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

···		Application No.	Applicant(s)			
Office Action Summary		10/724,608	KOMETANI ET AL.			
		Examiner	Art Unit			
		Rabon Sergent	1711			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the country of the coun	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on <u>29 May 2007</u> . This action is FINAL . 2b) This action is non-final.					
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dienociti	ion of Claims		1			
5)□ 6)⊠ 7)□ 8)□	Claim(s) 20,23,24 and 26-28 is/are pending in 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 20,23,24 and 26-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
_	on Papers					
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Examiner	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119		•			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been received (PCT Rule 17.2(a)).	tion No. <u>09/973,747</u> . ved in this National Stage			
Attachment	t(s)	•				
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informat 6) Other:	Date			

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 20, 23, 24, and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hagio et al. ('104) in view of Laas et al. ('044) and Nakamura et al. ('034) and Hannah et al. ('659).

Hagio et al. disclose the use of salts of cycloamidines, such as applicants' claimed DBU, DBN, and DBD, as catalysts for polyurethane compositions. Patentees further disclose that the aforementioned salts can be produced from the reaction of the aforementioned cycloamidines with unsaturated acids, such as crotonic acid, acrylic acid, and ricinoleic acid. See abstract; column 2; and column 3, lines 14-19.

3. In addition to the teachings of Hagio et al, Nakamura et al. disclose at column 5, lines 1-40, especially lines 1-4, that salts of DBU were known catalysts for polyurethanes, and Laas et al. disclose at column 4, line 65 through column 5, line 13 that bicyclic amidines corresponding

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to those of applicants were known catalysts for polyurethane yielding coating compositions. Though the aforementioned references fail to specifically recite the use of the catalysts within two-component isocyanate based systems, the use of salts of DBU and DBN within such systems was known at the time of invention, as evidenced by Hannah et al. at column 4, line 65 through column 5, line 27. Furthermore, since the salt forms in a one to one ratio of catalyst to acid, applicants' claimed ratio limitations are considered to be satisfied.

- 4. Therefore, in view of the aforementioned teachings, the position is taken that it would have been obvious to utilize salts derived from unsaturated acids and cyclic amidines, such as DBU, DBN, and DBD, in their art recognized capacity as catalysts for polyurethane and isocyanate based polymeric systems, and that it further would have been obvious to utilize the salts in virtually any type of polyurethane yielding system, including two-component systems. Lastly, the position is taken that the use of virtually any unsaturated acid to block the catalyst would have been obvious in view of the teachings of the references.
- 5. Applicants' response of May 29, 2007 has been considered; however, applicants' response is insufficient to overcome the prior art rejection. Firstly, applicants' amendment serves only to place previous claims 21 and 25 in independent form; therefore, new claims 27 and 28 fail to set forth any claim limitation that has not been previously considered.

 Furthermore, applicants' argument with respect to Hannah et al. is not well taken. Despite applicants' position, it is not seen that applicants' claims exclude blocked isocyanates or blocked isocyanate prepolymers. Therefore, the position is maintained that the instant claims fail to overcome the prior art rejection for essentially the same reasons as set forth previously. For applicants' convenience, the previously set forth reasons are set forth again herein. As

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aforementioned, applicants' responses and the 37 CFR 1.132 declaration of June 7, 2006 have been considered; however, the response and declaration are insufficient to overcome the prior art rejection. The examiner has considered applicants' examples; however, it is not seen that applicants have provided showings commensurate in scope with the claims to rebut the prima facie case of obviousness. Despite applicants' arguments, applicants' claims and examples are not commensurate in scope in terms of catalyst species, acid species, quantities of reactants, quantities of catalyst, and ratios of catalyst to acid. It has been held that evidence of unexpected results, must pertain to the full extent of the subject matter being claimed. In re Ackermann, 170 USPQ 340; In re Chupp, 2 USPQ2d 1437; In re Murch, 175 USPQ 89. Accordingly, to overcome a prima facie case of obviousness, the claims must be commensurate in scope with any showing of unexpected results. In re Greenfield, 197 USPQ 227. Furthermore, it has been held that a limited showing of criticality is insufficient to support a broadly claimed range. In re Lemin, 161 USPQ 288; In re Kulling, 14 USPQ2d 1056. Furthermore, to the extent that the examples and claims are commensurate in scope, it remains unclear that applicants' results are in fact unexpected. In the instant case, the position is maintained that the evidence of obviousness outweighs the evidence of non-obviousness. One of ordinary skill in the art, in the course of routine experimentation, would have been able to select suitable acid blocked catalysts yielding optimum results, in terms of such properties as pot-life and viscosity increase. This issue has been set forth previously; however, applicants have not addressed the issue.

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.

R. Sergent August 20, 2007

RABON SERGENT PRIMARY EXAMINER